Neuroscience & Biobehavioral Reviews, Vol 8. Copyright © 1984 by ANKHO International Inc. Printed in the U.S.A.

VOLUME 8 1984

SUBJECT INDEX

Academic-industrial relationship, 261
  canine olfaction
  dogs
  palatability
  preference-test
Active cutaneous spots, 25
  acupuncture
  transcutaneous nerve stimulation
Acupuncture, 25
  active cutaneous spots
  transcutaneous spots stimulation
Aggression, 5
  defensiveness
  mammalian species
Aging
  chorda tympani, 185
  dogs, 185, 199
  electrophysiology, 185
  endorphins, 387
  human studies, 387
  isolation, 455
  neurotransmitters, 455
  obstetrical analgesia, 387
  opiates, 387
  play soliciting, 455
  sheep, 387
  social play, 455
  sugars, 185, 199
  taste, 185
  taste preference, 199
Alliesthesia, 335
  human studies
  temperature regulation
  thermal pleasantness
  thermoregulatory behavior
Ambient temperature, 205
  dogs
  eating
  environmental influences
  24-hour free feeding
  meal analysis
Amyl acetate, 169
  conditioned suppression
  dogs
  olfaction
Animal models
  antipsychotic drugs, 153
  axonal sprouting, 55
  kindling, 55
  neural plasticity, 55
  open field, 153
  phylogeny, 269
  schizophrenia, 55, 153
  sleep, 269
  sleep duration, 269
  sleep placement, 269
Antipsychotic drugs, 153
  animal model
  open field
  schizophrenia
Anxiety, 405
  benzodiazepine sites
  convulsions
  drug interaction
  electrophysiology
  picrotoxin sites
  Ro 5-4864
Apparatus, 239
  fine-grained measurement apparatus
Axonal sprouting, 55
  animal models
  kindling
  neural plasticity
  schizophrenia

Benzodiazepine sites, 405
  anxiety
  convulsions
  drug interaction
  electrophysiology
  picrotoxin sites
  Ro 5-4864
Body weight, 515
  eating
  fat store
  hyperphagia
  hypophagia
Brain
  accumbens nucleus, 5
  amygdala, 5
  central nervous system, 1
  cerebral cortex, 301
  diencephalon, 95
  dorsal raphe nucleus, 5
  hypothalamus, 73, 95
  lateral preoptic area, 95
  lateral septum, 5
  medial accumbens, 5
  medial hypothalamus, 5
  median raphe nucleus, 5
  olfactory bulb, 5
  zona incerta, 95
Brain controls, 465
  dominance
  pharmacological effects
  regulation
Brain dysfunction, 1
  central nervous system
  fetal alcohol syndrome

Canine olfaction, 261
  academic-industrial relationship
  dogs
  palatability
  preference-tests
Cardiovascular regulation, 343
  electrophysiology
  neuroanatomy
  pain regulation
  pharmacology
Catecholamines, 523
  cortisol
  human studies
  self-reported mood
  urine, human
Central nervous system, 1
  brain dysfunction
  fetal alcohol syndrome
Cerebral cortex, 301
  chemically defined medium
  neurons in vitro
  serum-free medium

Change-over delay, 217
  concurrent schedules
  dogs
  matching
  preference testing
Chemically defined medium, 301
  cerebral cortex
  neurons in vitro
  serum-free medium
Chorda tympani, 185
  aging
  dogs
  electrophysiology
  sugars
  taste
Circumvallate papilla, 175
  dogs
  fungiform papilla
  prenatal development
  taste bud morphology
Concurrent schedules
  change-over delay, 217
  dogs, 217, 231
  hedonic scaling, 211, 231
  matching, 217
  matching law, 211
  operant conditioning, 211
  operant lever-press tests, 231
  preference testing, 217, 231
  two-bowl tests, 211
  two-pan tests, 231
Conditioned suppression, 169
  amyl acetate
  dogs
  olfaction
Convulsions, 405
  anxiety
  benzodiazepine sites
  drug interaction
  electrophysiology
  picrotoxin sites
  Ro 5-4864
Cortisol, 523
  catecholamines
  human studies
  self-reported mood
  urine, human

Defensiveness, 5
  aggression
  mammalian species
Delta-sleep-inducing peptide, 83
  neuropharmacological agents
  physiological functions
  sleep
  stress
Dogs
  academic-industrial relationship, 261
  aging, 185, 199
  ambient temperature, 205
  amyl acetate, 169
  canine olfaction, 261
  change-over delay, 217
  chorda tympani, 185
  circumvallate papilla, 175
  concurrent schedules, 217, 231

conditioned suppression, 169
dry food eating, 243
early experience, 191
eating, 205, 239, 243
electrophysiology, 185
environmental influences, 205
fine-grained measurement, 243
fine-grained measurement apparatus, 239
flavor, 191
food preference, 191
fructose, 225
fungiform papilla, 175
glucose, 225
hedonic scaling, 231
24-hour free feeding, 205
matching, 217
meal analysis, 205
olfaction, 169
operant lever-press tests, 231
palatability, 261
preference testing, 217
preference tests, 231, 261
prenatal development, 175
restricted rearing, 191
scaling concurrent operants, 225
single-pan test, 243
sucrose, 225
sugars, 185, 199
taste, 185
taste bud morphology, 175
taste preference, 199
two-pan test, 231, 243
Dogs, home, 253
dogs, kennel
eating
feeding history
preference
Dogs, kennel, 253
dogs, home
eating
feeding history
preference
Dominance, 465
brain controls
pharmacological effects
regulation
Drinking
CGS 8216, 405
chlordiazepoxide, 405
diazepam, 405
DMHP, 369
DMHPA, 369
hypothalamocentric theory, 95
lesions, hypothalamus, 95
methadone, 387
morphine, 387
naloxone, 387
naltrexone, 387
phenytoin, 405
picrotoxin, 405
PK 11195, 405
Ro 5-4864, 405
Ro 15-1788, 405
Δ^9-THC, 369
thirst, 95
Drugs
amphetamine, 153
amyl acetate, 169
cyclamate, 199
ethanol, 1, 35
melatonin, 503
nicotine, 503
norepinephrine, 35
phencyclidine, 493
serotonin, 35
zimeldine, 35
Drug interaction, 405
anxiety
benzodiazepine sites
convulsions
electrophysiology
picrotoxin sites
Ro 5-4864
Dry food, 243
dogs
eating
fine-grained measurement
single-pan test
two-pan test

Early experience, 191
dogs
flavor
food preference
restricted rearing
Eating
ambient temperature, 205
body weight, 515
dogs, 205, 239, 243
dogs, home, 253
dogs, kennel, 253
dry food, 243
environmental influences, 205
fat store, 515
feeding history, 253
fine-grained measurement, 243
fine-grained measurement apparatus, 239
food selection, 441
gustatory system, 415
24-hour free feeding, 205
hyperphagia, 441, 515
hypophagia, 515
locomotor activity, 441
meal-analysis, 205
meal patterns, 441
meals, 129
obesity, 441
preference, 253
preloads, 129
satiety, 129
single-pan test, 243
trigeminal sensorimotor mechanisms, 415
two-pan test, 243
Electrophysiology
aging, 185
anxiety, 405
benzodiazepine sites, 405
cardiovascular regulation, 343
chorda tympani, 185
convulsions, 405
dogs, 185
drug interaction, 405
neuroanatomy, 343
pain regulation, 343
pharmacology, 343
picrotoxin sites, 405
Ro 5-4864, 405
sugars, 185
taste, 185
Endorphins, 387
aging
human studies
obstetrical analgesia
opiates
sheep

β-Endorphin, 73
metabolism
neuron activity
skin temperature
thermoregulation
Environmental influences, 205
ambient temperature
dogs
eating
24-hour free feeding
meal-analysis
Etiology, 137
hyperactivity
schizophrenia

Fat store, 515
body weight
eating
hyperphagia
hypophagia
Feeding history, 253
dogs, home
dogs, kennel
eating
preference
Fetal alcohol syndrome, 1
brain dysfunction
central nervous system
Fine-grained measurement, 243
dogs
dry food
eating
single-pan test
two-pan test
Fine-grained measurement apparatus, 239
dogs
eating
Flavor, 191
dogs
early experience
food preference
restricted rearing
Food preference, 191
dogs
early experience
flavor
restricted rearing
Food selection, 441
eating
hyperphagia
locomotor activity
meal patterns
obesity
Fructose, 225
dogs
glucose
scaling concurrent operants
sucrose
Fungiform papilla, 175
circumvallate papilla
dogs
prenatal development
taste bud morphology

Glucose, 225
dogs
fructose
scaling concurrent operants
sucrose
Gustatory system, 415
eating
trigeminal sensorimotor mechanisms

Hedonic scaling
concurrent schedules, 211, 231
dogs, 231
matching law, 211
operant conditioning, 211
operant lever-press tests, 231
preference tests, 231
two-bowl tests, 211
two-pan tests, 231
Hormone, 433
prolactin
24-Hour free feeding, 205
ambient temperature
dogs
eating
environmental influences
meal analysis
Human studies
aging, 387
alliesthesia, 335
catecholamines, 523
cortisol, 523
endorphins, 387
incapacitating agents, 493
obstetrical analgesia, 387
opiates, 387
phencyclidine, 493
psychosis, 493
self-reported mood, 523
sheep, 387
temperature regulation, 335
thermal pleasantness, 335
thermoregulatory behavior, 335
urine, human, 523
Hyperactivity, 137
etiology
schizophrenia
Hyperphagia
body weight, 515
eating, 441, 515
fat store, 515
food selection, 441
hypophagia, 515
locomotor activity, 441
meal patterns, 441
obesity, 441
Hyperprolactinaemia, 433
neuroleptics
prolactin
sexual behavior, male animals
Hypotension, 369
hypotensive agents
incapacitation
incapitating agents
tetrahydrocannabinol analog
Hypotensive agents, 369
hypotension
incapacitation
incapitating agents
tetrahydrocannabinol analog
Hypophagia, 515
body weight
eating
fat store
hyperphagia
Hypothalamocentric theory, 95
drinking
lesions, hypothalamus
thirst

Incapacitating agents
human studies, 493
hypotension, 369
hypotensive agents, 369
incapacitation, 369
phencyclidine, 493
psychosis, 493
tetrahydrocannabinol analog, 369
Incapacitation, 369
hypotension
hypotensive agents
incapacitating agents
tetrahydrocannabinol analog
Isolation, 455
aging
neurotransmitters
play soliciting
social play

Kindling, 55
animal models
axonal sprouting
neural plasicity
schizophrenia

Lesions, hypothalamus, 95
drinking
hypothalamocentric theory
thirst
Locomotor activity, 441
eating
food selection
hyperphagia
meal patterns
obesity

Mammalian species, 5
aggression
defensiveness
Matching, 217
change-over delay
concurrent schedules
dogs
preference testing
Matching law, 211
concurrent schedules
hedonic scaling
operant conditioning
two-bowl tests
Meal-analysis, 205
ambient temperature
dogs
eating
environmental influences
24-hour free feeding
Meal patterns, 441
eating
food selection
hyperphagia
locomotor activity
obesity
Meals, 129
preloads
satiety
Metabolism, 73
β-endorphin
neuron activity
skin temperature
thermoregulation
Method
electron microscopy, 175
light microscopy, 175
operant lever-press tests, 231
single-pan test, 243
two-bowl tests, 211
two-pan tests, 231, 243

Neural coding, 105
psychophysics
receptor mechanisms
taste sensations
Neural plasticity, 55
animal models
axonal sprouting
kindling
schizophrenia
Neuroanatomy, 343
cardiovascular regulation
electrophysiology
pain regulation
pharmacology
Neuroleptics, 433
hyperprolactinaemia
prolactin
sexual behavior, male animals
Neuron activity, 73
β-endorphin
metabolism
skin temperature
thermoregulation
Neurons in vitro, 301
cerebral cortex
chemically defined medium
serum-free medium
Neuropharmacological agents, 83
delta-sleep-inducing peptide
physiological functions
sleep
stress
Neuroregulators, 503
reinforcement
smoking
Neurotransmitters, 455
aging
isolation
play soliciting
social play
Norepinephrine, 35
serotonin reuptake inhibition
voluntary ethanol consumption
zimeldine

Obesity, 441
eating
food selection
hyperphagia
locomotor activity
meal patterns
Obstetrical analgesia, 387
aging
endorphins
human studies
opiates
sheep
Olfaction, 169
amyl acetate
conditioned suppression
dogs
Open field, 153
animal model
antipsychotic drugs
schizophrenia
Operant conditioning, 211
concurrent schedules
hedonic scaling
matching law
two-bowl tests
Operant lever-press tests, 231
concurrent operant schedules
dogs
hedonic scaling

preference tests
two-pan tests
Opiates, 387
aging
endorphins
human studies
obstetrical analgesia
sheep

Pain regulation, 343
cardiovascular regulation
electrophysiology
neuroanatomy
pharmacology
Palatability, 261
academic-industrial relationship
canine olfaction
dogs
preference-tests
Peptides
delta-sleep-inducing peptide, 83
β-endorphin, 73
Pharmacological effects, 465
brain controls
dominance
regulation
Pharmacology, 343
cardiovascular regulation
electrophysiology
neuroanatomy
pain regulation
Phencyclidine, 493
human studies
incapacitating agents
psychosis
Phylogeny, 269
animal models
sleep
sleep duration
sleep placement
Physiological functions, 83
delta-sleep-inducing peptide
neuropharmacological agents
sleep
stress
Picrotoxin sites, 405
anxiety
benzodiazepine sites
convulsions
drug interaction
electrophysiology
Ro 5-4864
Play soliciting, 455
aging
isolation
neurotransmitters
social play
Preference, 253
dogs, home
dogs, kennel
eating
feeding history
Preference testing, 217
change-over delay
concurrent schedules
dogs
matching
Preference tests
academic-industrial relationship, 261
canine olfaction, 261
concurrent operant schedules, 231
dogs, 231, 261
hedonic scaling, 231
operant lever-press tests, 231
palatability, 261
two-pan tests, 231
Preloads, 129
meals
satiety
Prenatal development, 175
circumvallate papilla
dogs
fungiform papilla
taste bud morphology
Prolactin, 433
hyperprolactinaemia
neuroleptics
sexual behavior, male animals
Psychophysics, 105
neural coding
receptor mechanisms
taste sensations
Psychosis, 493
human studies
incapacitating agents
phencyclidine

Receptor mechanisms, 105
neural coding
psychophysics
taste sensations
Reinforcement, 503
neuroregulators
smoking
Regulation, 465
brain controls
dominance
pharmacological effects
Restricted rearing, 191
dogs
early experience
flavor
food preference
Ro 5-4864, 405
anxiety
benzodiazepine sites
convulsions
drug interaction
electrophysiology
picrotoxin sites

Satiety, 129
meals
preloads
Scaling concurrent operants, 225
dogs
fructose
glucose
sucrose
Schizophrenia
animal behavior, 153
animal models, 55
antipsychotic drugs, 153
axonal sprouting, 55
etiology, 137
hyperactivity, 137
kindling, 55
neural plasticity, 55
open field, 153
Self-reported mood, 523
catecholamines
cortisol
human studies
urine, human
Serotonin reuptake inhibition, 35
norepinephrine
voluntary ethanol consumption
zimeldine

Serum-free medium, 301
cerebral cortex
chemically defined medium
neurons in vitro
Sexual behavior, male animals, 433
hyperprolactinaemia
neuroleptics
prolactin
Sheep, 387
aging
endorphins
human studies
obstetrical analgesia
opiates
Single-pan test, 243
dogs
dry food
eating
fine-grained measurement
two-pan test
Skin temperature, 73
β-endorphin
metabolism
neuron activity
thermoregulation
Sleep
animal models, 269
delta-sleep-inducing peptide, 83
duration, 269
neuropharmacological agents, 83
phylogeny, 269
physiological functions, 83
placement, 269
stress, 83
Sleep duration, 269
animal models
phylogeny
sleep
sleep duration
sleep placement
Sleep placement, 269
animal models
phylogeny
sleep
sleep duration
Smoking, 503
neuroregulators
reinforcement
Social play, 455
aging
isolation
neurotransmitters
play soliciting
Stress, 83
delta-sleep-inducing peptide
neuropharmacological agents
physiological functions
sleep
Sucrose, 225
dogs
fructose
glucose
scaling concurrent operants
Sugars
aging, 185, 199
chorda tympani, 185
dogs, 185, 199
electrophysiology, 185
taste, 185
taste preference, 199

Taste, 185
aging
chorda tympani

dogs
electrophysiology
sugars
Taste bud morphology, 175
curcumvallate papilla
dogs
fungiform papilla
prenatal development
Taste preference, 199
aging
dogs
sugars
Taste sensations, 105
neural coding
psychophysis
receptor mechanisms
Temperature regulation, 335
alliesthesia
human studies
thermal pleasantness
thermoregulatory behavior
Tetrahydrocannabinol analog, 369
hypotension
hypotensive agents
incapacitation
incapitating agents
Thermal pleasantness, 335
alliesthesia
human studies
temperature regulation
thermoregulatory behavior
Thermoregulation, 73
β-endorphin
metabolism
neuron activity
skin temperature
Thermoregulatory behavior, 335
alliesthesia
human studies
temperature regulation
thermal pleasantness
Thirst, 95
drinking
hypothalamocentric theory
lesions, hypothalamus
Transcutaneous nerve stimulation, 25
active cutaneous spots
acupuncture
Trigeminal sensorimotor mechanisms, 415
eating
gustatory system
Two-bowl tests, 211
concurrent schedules
hedonic scaling
matching law
operant conditioning
Two-pan test
concurrent operant schedules, 231
dogs, 231, 243
dry food, 243
eating, 243
fine-grained measurement, 243
hedonic scaling, 231
operant lever-press tests, 231
preference tests, 231
single-pan test, 243

Urine, human, 523
catecholamines
cortisol
human studies
self-reported mood

Voluntary ethanol consumption, 35
norepinephrine
serotonin reuptake inhibition
zimeldine

Zimeldine, 35
norepinephrine
serotonin reuptake inhibition
voluntary ethanol consumption

AUTHOR INDEX

Albert, D. J., 5
Amit, Z., 35
Armstrong, S., 523
Attia, M., 335
Austin, T., 205, 231, 239, 243

Bashore, T. R., 153
Beidler, L. M., 261
Bloom, L., 239
Blundell, J. E., 441

Campbell, S. S., 269
Cante, C. J., 253
Carlton, P. L., 137
Castonguay, T. W., 205
Chan, S. H. H., 25
Chao, E. T., 225

Datar, M., 523
Drago, F., 433

Erickson, R. P., 105

Ferrell, F., 175, 185, 191, 199
Fibiger, W., 523
File, S. E., 405
Foster, D. F., 231

Gill, K., 35
Gordon, C. J., 73
Graf, M. V., 83
Green, P. L., 217
Griffin, R. W., 243, 253, 261
Grossman, S. P., 95

Haracz, J. L., 55
Heath, J. E., 73
Henderson, R., 239
Holloway, W. R., Jr., 455

Jonsson, L., 169, 205

Kastin, A. J., 83
Kissileff, H. R., 129
Krestel, D., 169
Kutscher, C., 161, 425, 531

Le Magnen, J., 515

McLaughlin, P. J., 387

Maixner, W., 343
Manowitz, P., 137
Miller, A. J., 523

Normansell, L., 465

Ogren, S. O., 35
Oliff, G., 239

Panksepp, J., 465
Passe, D., 169
Pellow, S., 405
Pollitz, C., 205
Pomerleau, C. S., 503
Pomerleau, O. F., 503
Pradhan, S. N., 369, 493

Randich, A., 343
Rashotte, M. E., 205, 211, 217, 231, 239, 243
Rebec, G. V., 153
Rezvani, A. H., 73

Rogers, P. J., 441
Romijn, H. J., 301

Scott, G. C., 253
Singer, G., 523
Siviy, S., 465
Smith, J. C., 169, 205, 211, 239, 243
Sutherland, E. A., 35

Thor, D. H., 455
Tobler, I., 269

van Huizen, F., 301

Walsh, M. L., 5
Wolters, P. S., 301

Yellin, A. M., 1

Zagon, E., 387
Zagon, I. S., 387
Zeigler, H. P., 415